BRUHAT BANGALORE MAHANAGARA PALIKE

Rajarajeshwari nagar Zone

Detailed Estimate for Public works

Name of the work:-Operation and maintenance of street lighting system in ward no-16, Package R1 of Rajarajeshwari Nagar Zone.

Budget Head :-P0300 M & R to street lights- Replacement of Burntbulbs etc (Package)

Est.Cost Rs 16,00,000/-

Sl. No.	Description of Work	Qty.	Rate / Fitting /Annum	Unit	Amt. Per Annum
	Part A. Approved rate SE(Ele)/PR/676/2021-22 Dtd:07/12/2021				
1 AR	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **36/40 watt fluoroscent tube light street lighting systems.**	84	685.45	Each	57577.80
2 AR	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **125 watt HPMV park lighting systems.**	10	756.29	Each	7562.90
3 AR	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **250 watt HPSV street light lighting systems.**	203	1019.41	Each	206940.23
4 AR	Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Igniters, Capacitors, Switches , wires, Holders, Starter and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **400 watt HPSV street light/high mast lighting systems.**	50	1118.08	Each	55904.00
5 AR	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **65 watt LED street light lighting systems.**	200	1147.43	Each	229486.00
6 AR	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **90 watt LED street light lighting systems.**	100	1377.66	Each	137766.00

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Sl. No.	Description of Work	Qty.	Rate / Fitting /Annum	Unit	Amt. Per Annum
7 AR	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **110/120 watt LED street light lighting systems.**	77	1575.5	Each	121313.50
8 AR	Operation and Maintenance of LED street lighting system including replacement of damaged/failed/fused out components like LED drivers, MCPCB, surge protective device,, Switches , wires, Holders, Starter observing weather proofing technic confirming to IP 65 standards. and , switching ON/OFF of street lights at specified timing and Pole numbering , Preparing ward wise ,street wise street light data bank , furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for **24 watt to 40 watt LED park/ street lightimng system lighting systems.**	701	880.01	Each	616887.01
	Total Part A				**1433437.44**
9 P.No-XVII I.No 451	Supplying of Microprocessor Based Astronomical timer Switch	3	2418.00	Each	7254.00
10 P.No-XIV I.No- 244	Supplying of 4 Pole Power contactor with NO/NC Contactor 100-125 amps.	2	4320.00	Each	8640.00
11 P.No-XIV I.No- 262	Supplying of 4 Pole 100Amps 25kA Moulded Case Circuit Breaker(MCCB).	2	3840.00	Each	7680.00
12 P.No-XV, I.No- 280	Supplying of 50-63Amps DP Miniature Circuit Breakers	2	813.00	Each	1626.00
13 P.No-40, I.No-6.4.4	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975. 4 core 16 sqmm.	150	150.00	Mtr	22500.00
14 P.NO-41 I.NO-6.5.6	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. On wall /Structure. 6 sqmm to 16 sqmm	140	30.00	Mtr	4200.00
15 P.NO-31 I.NO-5.44.1	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cutout with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. 300mmx300mmx214mm	10	3754.00	Each	37540.00
16 P.NO-26 I.NO-5.14.1	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics). Three pole 100amps 25kva	10	4530.00	Each	45300.00
17 P.NO-30 I.NO-5.41.1	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 40x40x6mm	6	255.00	Mtr	1530.00

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Sl. No.	Description of Work	Qty.	Rate / Fitting /Annum	Unit	Amt. Per Annum
18 P.NO-30 I.NO-5.40.1	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminium strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/ DMC insulator which are mounted on powder coated 40x6mm M.S flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. 100Amps 4x30x6mm Aluminium Strips	3	2050.00	Mtr	6150.00
19 P.NO-10 I.NO-3.9	Supplying and fixing hylum plastic sheet 3mm thick with necessary nitches for fixing switches, regulators etc., and fixing on existing wood or metal box using N.F. screws.	6250	0.24	Sq cm	1500.00
20 P.NO-43 I.NO-6.17.7	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 25 sqmm Long Barrel	20	20.00	Each	400.00
21 P.NO-7 I.NO-2.7.3	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring. 10sqmm	250	17.00	Mtr	4250.00
	Total Part B				148570.00
	GST @12% on Part B				17828.40
	Miscellaneous Charges				164.16
	Grand Total				1600000.00
	Rupees Sixteen Lakh Only				

CERTIFICATE

1. The Place was inspected and work is essential
2. The Provisions made in the estimate are adequate and necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the BBMP Funds.
4. The rates in the Estimate is based on the approved Data rates vide office memo no. SE(Ele)/PR/676/2021-22 Dtd:07/12/2021 and KPWD Ele SR -2014-15 and 2019-20.

Asst. Engineer (Ele)

Asst. Exe. Engineer (Ele) I/C
Rajarajeshwari Nagar Zone,

Executive Engineer(Ele)
Rajarajeshwari nagar zone
Bruhat Bangalore Mahanagara Palike

Administrative Sanctioned for Rs. 16,00,000/-
Rs. Sixteen lakhs only ..... is accorded
under the head P0300 - M&R to Street lights
By EE (Elect) RRN, Pg.No. 64 & 65
Registered as EE (Elect) RRN/No. 54/21-22 subject to conditions contained in enclosed memo No. EE/Elc/RRN/AS/54/21-22 Date. 19/03/22

AE, (Elect) RRN

EE, (Elect) RRN

Rs. 16,00,000/-
Sixteen Lakhs only
is accorded under head P0300 - M&R to Street lights
Agreed at SE (Ele) No. SE/Ele/PR/763/21-22 subject to conditions contained in enclosed memo No. 134 Date: 06/01/22
SE/Ele/TS/134/21-22

AE

TA

SE (Elect)

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